

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 2002M179	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 03/12881	International filing date (day/month/year) 18/11/2003	(Earliest) Priority Date (day/month/year) 20/11/2002
Applicant EXXONMOBIL CHEMICAL PATENTS INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/12881

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C51/36 C07C67/303 C07C61/09 C07C61/08 C07C61/24
C07C61/22 C07C69/75

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 286 898 A (GUSTAFSON BRUCE L ET AL) 15 February 1994 (1994-02-15) abstract column 2, line 60 -column 5, line 6 examples 1-18 claims 1-8 ---	1,12-16, 18, 31-33, 36,37, 46-52
X	US 6 284 917 B1 (BREITSCHIEDEL BORIS ET AL) 4 September 2001 (2001-09-04) cited in the application the whole document ----- -/--	1-6, 12-14, 19-24, 31-52



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

27 April 2004

Date of mailing of the international search report

06/05/2004

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/12881

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
E	WO 03/103830 A (GAUDSCHUN KURT-ALFRED ;MASCHMEYER DIETRICH (DE); OXENO OLEFINCHEMI) 18 December 2003 (2003-12-18) the whole document ---	1-5, 12-16, 31-52
A	US 6 248 924 B1 (BREITSCHIEDL BORIS ET AL) 19 June 2001 (2001-06-19) the whole document -----	1,49,52

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/12881

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5286898	A	15-02-1994	CA 2165207 A1	22-12-1994
			CN 1099745 A ,B	08-03-1995
			DE 69412827 D1	01-10-1998
			DE 69412827 T2	14-01-1999
			EP 0703894 A1	03-04-1996
			ES 2120054 T3	16-10-1998
			JP 8511775 T	10-12-1996
			JP 3499557 B2	23-02-2004
			SG 47888 A1	17-04-1998
			WO 9429260 A1	22-12-1994
US 6284917	B1	04-09-2001	DE 19756913 A1	24-06-1999
			DE 19832088 A1	20-01-2000
			AU 759882 B2	01-05-2003
			AU 2613399 A	12-07-1999
			BR 9813786 A	03-10-2000
			CA 2315223 A1	01-07-1999
			CN 1285815 T	28-02-2001
			DE 29824628 U1	29-11-2001
			DE 59808306 D1	12-06-2003
			WO 9932427 A1	01-07-1999
			EP 1314714 A2	28-05-2003
			EP 1042273 A1	11-10-2000
			ES 2199484 T3	16-02-2004
			ID 30388 A	29-11-2001
			JP 2001526252 T	18-12-2001
			US 2002019559 A1	14-02-2002
			ZA 9811614 A	19-06-2000
WO 03103830	A	18-12-2003	DE 10225565 A1	18-12-2003
			WO 03103830 A1	18-12-2003
US 6248924	B1	19-06-2001	DE 19624485 A1	02-01-1998
			DE 19624835 A1	02-01-1998
			CN 1174753 A ,B	04-03-1998
			EP 0814098 A2	29-12-1997
			JP 10072377 A	17-03-1998
			US 2001000035 A1	15-03-2001